

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.*

*The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.*

*Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

## C-A OPERATIONS PROCEDURES MANUAL

### ATTACHMENT

#### 8.35.a Compactor/Baler Startup and Operating Checklist

C-A-OPM Procedures in which this Attachment is used.		
8.35		

#### Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: \_\_\_\_\_  
Collider-Accelerator Department Chairman      Date

J. Scott

### 8.35.a Compactor Baler Startup and Operating Checklist

**Note:**

1. A copy of operations manual shall be maintained in CAB at all times, and can be used for operating unit.
2. This attachment shall be completed every day of operation. Record of Completion shall be recorded in the "Compactor Maintenance and Operation Log Book". This log book is maintained by the C-A EC.

1. Routine maintenance checks prior to startup
  - 1.1 Check hydraulic oil level satisfactory
  - 1.2 Check motor oil level satisfactory
  - 1.3 Check fuel level satisfactory
  - 1.4 Inspect entire unit for leaks, damaged hoses, cleanliness.
  - 1.5 Check that hydraulic oil shutoff valves are open.
  - 1.6 Check area around compactor is clean of materials except those stored for compacting.
  - 1.7 Make sure all grease fittings have been greased.
  - 1.8 Inspect cab, engine compartment, and cooling system and clean as necessary to prevent overheating.
2. Compactor/Baler Startup and Operation
  - 2.1 Environmental Coordinator will close 440 volt breaker on control box and give ignition key to hemo operator.
  - 2.2 Hemo operator shall ensure all personnel are outside 25-foot safety area, and have a clear sight of EC for communications.

**Note:**

If any problems arise, the Hemo Operator shall shut down the unit safely and remove ignition key prior to personnel entering exclusion area.

- 2.3 Start engine with ignition key, let it run for approximately 5 minutes to warm up.
- 2.4 Open throttle fully.
- 2.5 Perform dry run of unit prior to loading hopper for compacting.
  - 2.5.1 Open curved door
  - 2.5.2 Open flat door
  - 2.5.3 Fully retract ram by pushing right foot pedal down until fully retracted.
  - 2.5.4 Close bale eject door fully by pushing door joystick away from body.
  - 2.5.5 Close curved door fully.
  - 2.5.6 Close flat door fully.
  - 2.5.7 Start main ram using left foot pedal until it stops or reads 220 bars/3200 psi on gauge facing operator
  - 2.5.8 Back off ram removing pressure to zero prior to opening bale eject door.
  - 2.5.9 Open bale eject door fully.
  - 2.5.10 Engage ram forward and stop when bale falls or pressure reads 220 bars/3200 psi.
  - 2.5.11 Retract ram completely.
  - 2.5.12 Close bale eject door.
  - 2.5.13 Open curved door fully.
  - 2.5.14 Open flat door fully.
- 2.6 Test crane operating correctly.
- 2.7 If dry run is satisfactory, compacting may begin.
  - 2.7.1 Pick up material and load hopper fully and as evenly as possible.

**Note:**

If materials is sticking out of hopper with both doors closed, open and close flat and curved doors alternately until material is fully drawn into hopper and both doors close fully.

- 2.7.2 Start main ram. Observe pressure gauge and stop ram when pressure is at 220 bars/3200 psi.
- 2.7.3 Back ram pressure off to zero.
- 2.7.4 Open bale eject door fully.
- 2.7.5 Engage ram forward until bale falls out or pressure reaches 220 bar/3200 psi.
- 2.7.6 Communicate with EC as to whether bale is clear of door or move it with crane if required.

**Note:**

If unable to retract ram completely, debris may have fallen behind ram. Use step 5.5.4 in maintenance section of [C-A-OPM 8.35](#) to clean behind ram.

- 2.7.7 Retract ram completely.
- 2.7.8 Close bale eject door completely.
- 2.7.9 Open curved door fully.
- 2.7.10 Open flat door fully.
- 2.7.11 Repeat steps 2.7.1 through 2.7.10 until up to 4 compacted bales have been completed.
- 2.7.12 Move up to 4 bales to final package. Ensure they are weighed and characterization information is included with bins paperwork.
- 2.7.13 Repeat steps 2.7.1 through 2.7.12 until compacting is completed for day.

2.7.14 Prior to securing baler for day:

- 2.7.14.1 Ensure ram is retracted fully.
- 2.7.14.2 Ensure bale eject door is fully closed.
- 2.7.14.3 Ensure curved door is fully closed.
- 2.7.14.4 Ensure flat door is fully closed.
- 2.7.14.5 Ensure crane jib is returned to its rest position.
- 2.7.14.6 Hemo Operator can secure ignition and return key to EC.
- 2.7.14.7 EC ensures control panel breaker is secured.
- 2.7.14.8 Ensure area is cleared up and all bins are covered.
- 2.7.14.9 Ensure gate is locked.